

Mikhail V. Lemper

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EDUCATION

College of Engineering, Michigan State University
Bachelor of Science, Computer Science
Master of Science, Computer Science

East Lansing, MI
Graduated: Fall 2023
Expected Graduation: Spring 2025

- **Dean's List:** Spring 2020, Fall 2020, Spring 2022, Spring 2023.
- **GPA:** 3.5/4.0

SKILLS & TECHNICAL TOOLS

- **Programming Languages:** Python, C++, Java, SwiftUI, JavaScript, TypeScript, HTML, CSS, XML, SQL, Flask, Angular, PHP, Assembly Language
- **Development Tools and Practices:** Git, Data Structures and Algorithms, Object-Oriented Programming, Mobile App Development, Web App Architecture Development, UML, Docker, Google Cloud Platform (GCP)
- **Languages:** Russian (Native), English (Fluent)

PROFESSIONAL EXPERIENCE

Urban Science | TypeScript, HTML, CSS, Angular, Firebase, APIs, Chart.js
Software Engineer Intern

East Lansing, MI
September 2023 – December 2023

- Collaborated with a team of 5 students in MSU senior capstone course
- Designed and currently working on the Synthetic Media project, which is presented by the Urban Science
- Worked directly with customer to develop a complete project plan
- Created user interface based on Urban Science ServiceView product
- Built a widget that enables user seek clarification on the data and receive recommendations
- Employed Synthetic Media techniques that generate real-time video content using scripting and the analysis in the solution for the current user

Human Augmentation and Artificial Intelligence Laboratory | Python, OpenAI, NLTK, BeautifulSoup
Research Assistant

East Lansing, MI
May 2023 – Current

- Leveraged the power of the NLP library NLTK to perform advanced Named Entity Recognition (NER) on the text within 10-K documents, ensuring accurate identification of relevant entities
- Utilized OpenAI API to retrieve pertinent information associated with the identified named entities
- Conducted extensive data analysis on over 50 companies' 10-K filings to gain valuable insights
- Developed and implemented an API algorithm, utilizing BeautifulSoup, to extract both textual and numerical data, organized by table of contents, from the HTML files of companies' 10-K reports
- Investigated the influence of research and development investments on the growth prospects of diverse organizations

CSE 331 | Algorithms and Data Structures & CSE 231 | Introduction to Programming I

East Lansing, MI

Undergraduate Learning Assistant

September 2022 – December 2023

- Presented and explained the fundamentals of programming to 60 students during weekly laboratory sessions
- Provided detailed feedback to improve students' understanding of the projects and laboratories
- Monitored the online class learning platform, Piazza, to answer students' questions
- Assisted students during help room hours where I helped students break down complex problems

PROJECTS

IOS Social Media Application | XCode, SwiftUI, Firebase

- Designed and implemented the social media app using SwiftUI, and utilized Firebase as the database backend

Personal Website | HTML, CSS, JavaScript, SQL, Google Cloud Platform, Docker

- Created a web application featuring a live chat system for real-time text-based conversations, an authentication system for user access control, and developed two additional projects named Piano and NFT Marketplace

Harold's Magical Machine | C++, UML, XML, Object-Oriented Programming

- Implemented Harold's Magical Machine and Canadian Experience which consists of a total of 53 classes

Angry Sparty | C++, UML, XML, Git, Object-Oriented Programming

- Developed Angry Sparty, a game inspired by Angry Birds, with a 21-class system

Mobile App Connect 4 | Java, SQL, Retrofit, PHP, XML

- Developed a Connect 4, an Android game, involving XML layouts, implementing a game logic algorithm, establishing an authentication system with SQL database support, and handling both client and server components

LEADERSHIP

Google Student Developer Club
President

East Lansing, MI
July 2022 – May 2023

- Leading a club where students interested in developer technologies can meet and talk tech
- Providing an opportunity to help students grow as developers and unite potential talent
- Empowering students to impact their communities with software by instilling confidence in their technical abilities